



User Manual



Before reading, unfold the page containing the illustrations and familiarize yourself with all functions of the device.

CORDLESS ROTARY TOOL
BBT-KP526



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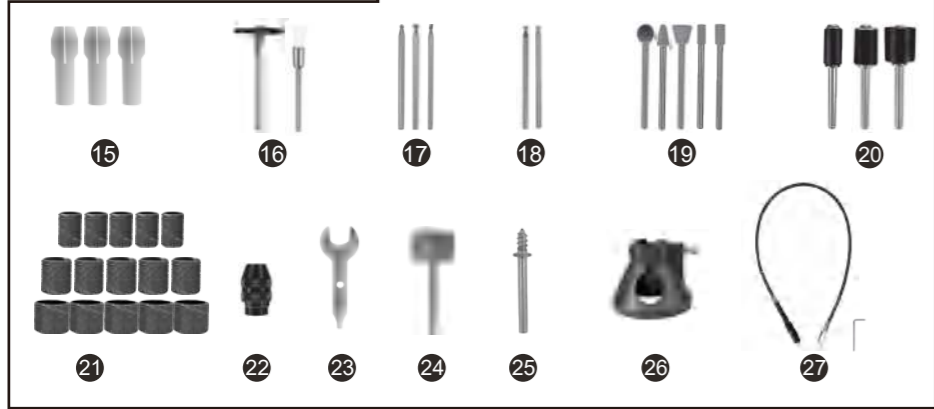
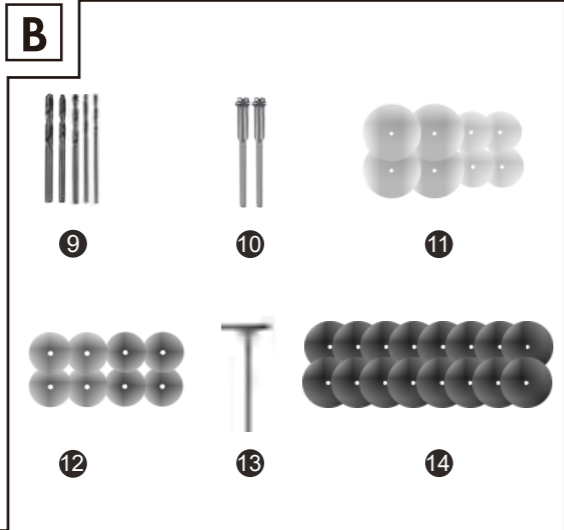
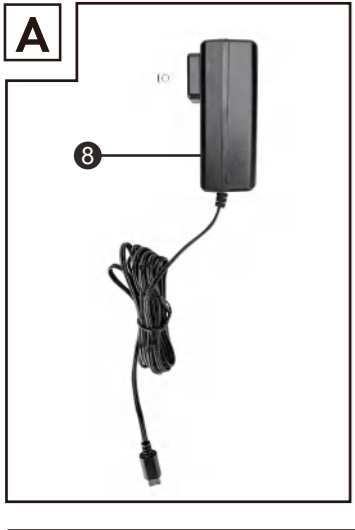
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Read all safety rules and instructions carefully before operating this tool.



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CORDLESS PRECISION ROTARY TOOL BBT-KP526

Introduction

Congratulations on the purchase of your new appliance. You have selected a high-quality product. The operating instructions are part of this product. They contain important information about safety, usage and disposal. Before using the product, please familiarise yourself with all operating and safety instructions. Use the product only as described and for the range of applications specified. Please also pass these operating instructions on to any future owner.

Intended use

This cordless rotary tool is intended for drilling, milling, engraving, polishing, cleaning, grinding, cutting of materials such as wood, metal, plastics, ceramics and stone in dry rooms using the corresponding attachments (as supplied). Any other usage of or modification to the appliance is deemed to be improper and carries a significant risk of accidents. The manufacturer accepts no responsibility for damage(s) attributable to misuse. This appliance is not intended for commercial use.

Warnings used

The following types of warning are used in these operating instructions:

DANGER

- ▶ DANGER indicates a hazardous situation that/ which, if not avoided, will result in death or serious injury.

WARNING

- ▶ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

- ▶ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

- ▶ NOTICE indicates information considered important, but not hazard related (e. g. messages related to property damage).

TIP

A "Tip" identifies additional information that will assist you in using the device.

Terminology

As used in this instruction manual in general and with regard to safety information, safety information and safety messages and warnings in particular, the following words have the following means:

- May:
This word is understood to be permissive.
- Shall:
This word is understood to be mandatory.
- Should:
This word is understood to be advisory.

Features

Cordless precision rotary tool:

- 1 Variable speed dial
- 2 Battery LED
- 3 ON/OFF switch
- 4 Charging socket
- 5 Collet nut
- 6 Nose cap
- 7 Shaft lock

Battery charger (See Fig. A):

- 8 Charger

Accessories (See Fig. B):

- 9 5 HSS drill bits
- 10 2 mandrels as tool holders
- 11 4+4 felt polishing wheels
- 12 8 grinding discs
- 13 1 coppered steel wire brush
- 14 16 cutting discs
- 15 3 collet chuck(1/16", 3/32", 1/8")

- 16 2 nylon brush
- 17 3 milling cutters
- 18 2 engraving bits
- 19 5 grinding bits
- 20 3 sanding drum mandrels
- 21 15 grit sanding bands
- 22 1 keyless chuck
- 23 1 combination spanner
- 24 1 grinding wheels
- 25 1 screw mandrel

Attachments (See Fig. B):

- 26 1 cutting/drilling guide
- 27 1 flex shaft



Package contents

- 1 cordless precision rotary tool
- 1 battery charger
- 1 accessories set (79 pieces)
- 1 plastic case
- 1 operating manual

Technical details

Model BBT-KP526:

- Rated voltage: 12 V --- (DC)
- Rated idle speed: n 5000–28000 rpm
- Max. disc \varnothing : max. \varnothing 31/32" (25mm)

- Chuck clamping range:  max. \varnothing 1/8" (3.2 mm)
- Capacity: 1500 mAh
- Battery (integrated):  LITHIUM-ION
- Cells: 3

Battery charger XZ1350-1500:

Primary (input):

- Rated voltage: 100-240 V~, 50/60 Hz (AC)

- Rated power consumption: 0.8 A

Secondary (output):

- Rated voltage: 12 V --- (DC)
- Rated current: 1.5 A

Charging time: approx. 1 hour

Polarity: 

General Power Tool Safety warnings



WARNING!

- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. Work area safety


- a) **Keep work area clean and well lit.**
Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep pets, children and bystanders away while operating a power tool.**
Distractions can cause you to lose control.

2. Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.**
There is an increased risk of electric shock if your body is earthed or grounded.

- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
- e) **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) **Dress properly.** Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

3. Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury
- b)  **Use personal protective equipment.** Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting.** Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

4. Power tool use and care

- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits, etc.** in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5. Use and handling of the cordless electrical power tool

- a) **Charge a rechargeable battery unit using only the charger recommended by the manufacturer.** Chargers are often designed for a particular type of rechargeable battery unit. There is the danger of fire if other types of rechargeable battery units are used.
- b) **Only the rechargeable battery units supplied are to be used with an electrical power tool.** The use of other rechargeable battery units may lead to the danger of injury or fire.
- c) **When they are not being used, store rechargeable battery units away from paper clips, coins, keys, nails, screws or other small metal objects that could cause the contacts to be bridged.** Short-circuiting the contacts of a rechargeable battery unit may result in heat damage or fire.
- d) **Fluids may leak out of rechargeable battery units if they are misused.** If this happens, avoid contact with the fluid. If contact occurs, flush the affected area with water. Seek additional medical help if any of the fluid gets into your eyes. Escaping battery fluid may cause skin irritation or burns.



CAUTION! RISK OF EXPLOSION!
Never charge non-rechargeable batteries!



Protect the rechargeable battery from heat, for example from continuous exposure to sunlight, fire, water and moisture. There is a risk of explosion.



6. Service

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety instructions for all applications

General safety instructions for grinding, sandpaper sanding, working with wire brushes, polishing, milling and abrasive cutting:

- a) **This power tool is intended for use as a grinder, sandpaper sander, wire brush, polisher, milling machine and abrasive cutting appliance.** Please follow all safety instructions, instructions, diagrams and data that you receive with the appliance. If you do not observe the following instructions, this can lead to electrical shock, fire and/or serious injuries.
- b) **Wear personal protective equipment.** Depending on the application, ensure that you use full face protection, eye protection or goggles. If required, use a dust mask, ear protectors, protective gloves or special apron to protect you from grindings and material particles. Protected your eyes from flying debris that may be created during certain applications. Dust or filter masks must be used to filter any dust created by the application. If you are exposed to loud noise for any length of time, you may suffer hearing loss.

- c) **Ensure that other people remain at a safe distance to your workspace.**
Anyone who enters the workspace must wear personal protective equipment. Fragments of the workpiece or broken accessory tools can fly off and cause injury – even outside the immediate working area.
- d) **Do not use any accessories that have not been provided or recommended by the manufacturer for this power tool.** Just because you can attach the accessories to your power tool, does not ensure they are safe to use.
- e) **The permissible speed of the accessory tool used must be at least as high as the maximum speed specified for the power tool.** Accessories that rotate faster than the permissible rate can break and throw pieces into the air.
- f) **The external diameter and thickness of the accessory tool used must comply with the dimensions of the power tool.** Incorrectly dimensioned accessory tools cannot be sufficiently shielded or controlled.
- g) **Grinding discs, sanding drums or other accessories must match the grinding spindle or collet chuck of your power tool exactly.** Accessory tools which do not fit precisely into the take-up of the power tool will rotate unevenly, vibrate severely and can lead to a loss of control.
- h) **Discs, grinding cylinders, cutting tools or other accessories mounted on a mandrel must be completely inserted in the collet or chuck.** Any "protrusion" or exposed parts of the mandrel between the grinding tool and the collet or chuck must be kept to a minimum. If the mandrel is not sufficiently tightened or the grinding tool protrudes too far, the tool could come loose and be thrown out at high speed.
- i) **Never use damaged accessory tools.** Before each use, check accessory tools such as grinding discs for chips or cracks, sanding drums for cracks, wearing or excessive wear and tear and wire brushes for loose or broken wires. If the power tool or the accessory tool in use is dropped, check to see if it is damaged or use an undamaged accessory tool. When you have checked and inserted the accessory tool, ensure that you and any other people in the vicinity remain outside of the range of the rotating accessory tool and allow the tool to rotate at maximum speed for one minute. Damaged accessory tools usually break during this test period.
- j) **Hold the power tool only by the insulated gripping surfaces when performing an operation where the accessory tool may contact hidden wiring or its own cord.** Contact with a live cable can also make metal parts of the appliance live and could result in an electric shock.
- k) **Always hold the power tool firmly.** When running up to full speed, the torque of the motor can cause the power tool to twist.
- l) **If possible, use clamps to hold the workpiece in position.** Never hold a small workpiece in one hand and the power tool in the other while you are using it. By clamping small workpieces, you keep both hands free for better control of the power tool. When cutting round workpieces such as dowels, rods or pipes, be aware that these can roll away and this can cause the tool to jam and be thrown towards you.
- m) **Hold the power cord away from any rotating accessories.** If you lose control of the appliance, the cord may get cut or caught and your hand or arm could get caught in the rotating accessory tool.
- n) **Never put the power tool down until the accessory tool has come to a complete standstill.** The rotating accessory tool can come into contact with the surface and cause you to lose control of the power tool.

- o) **When changing accessory tools or changing settings, tighten the collet nut, the chuck or other fixing elements tightly.** Loose fixing elements can shift unexpectedly and lead to loss of control; unfixed, rotating components will fly off violently.
- p) **Do not leave the power tool running whilst carrying it.** Accidental contact between your clothing and the rotating accessory tool could lead to physical injury.
- q) **Clean the ventilation slits of your power tool regularly.** The engine fan draws dust into the housing and a strong accumulation of metal dust can cause electrical hazards
- r) **Do not use the power tool in the vicinity of flammable materials.** Sparks can ignite such materials.
- s) **Do not use any accessory tools which require liquid coolant.** The use of water or other liquid coolants may lead to electric shock.
- t) **Do not touch the bit or collet after use.** After use the bit and collet are too hot to be touched by bare hands.
- u) **Do not alter or misuse tool.** Any alteration or modification is a misuse and may result in serious personal injury. This product is not intended for use as a dental drill, in human or veterinary medical applications. Serious injury may result.

Additional safety instructions for all applications

Kickback and corresponding safety instructions

Kickback is a sudden reaction caused when a rotating accessory tool, e.g. grinding disc, abrasive band, wire brush, etc., catches or jams. Catching or jamming leads to an abrupt stop of the rotating accessory tool. If this happens, an uncontrolled power tool will turn rapidly against the direction of rotation of the accessory tool.

If, for example, a grinding disc catches or jams, the edge of the grinding disc that is projecting into the workpiece can get caught and break off the grinding disc or cause a kickback. The grinding disc can then fly in the direction of the operator or away from him, depending on the direction of rotation of the disc at the blockage. This can also break grinding discs.

A kickback is caused by incorrect use or misuse of the power tool. This can be avoided by taking proper precautions as given below.

- a) **Hold the power tool firmly in both hands and position your body and arms so they can absorb the force of a kickback.** By taking adequate precautions, the operator can stay in control of the kickback forces.
- b) **Take special care when working around corners, sharp edges, etc.** Avoid allowing the accessory tool to bounce back from the workpiece or jam in the workpiece. The rotating accessory tool is more likely to jam in corners or sharp edges or if it rebounds off them. This can cause a loss of control or kickback.
- c) **Do not use toothed saw blades.** Such accessories often cause a kickback or loss of control over the power tool.
- d) **Always move the accessory tool in the same direction in the material in which the cutting edge leaves the material (in other words, the same direction in which the dust is thrown out).** Guiding the power tool in the wrong direction will cause the cutting edge of the accessory tool to jump out of the workpiece which can lead to the accessory tool being pulled in this direction.

- e) **Always fix the workpiece when using rotary files, cutting discs, high-speed milling tools or hard-metal tools.** Even a minimal tilting in the groove can cause these tools to jam and lead to a kickback. When the cutting disc jams, it usually breaks. When a rotary file, high-speed milling tool or hard-metal milling tool jams, the accessory tool can jump out of the groove and lead to loss of control of the power tool.

Supplementary safety instructions for grinding and abrasive cutting

Special safety instructions for grinding and abrasive cutting

- a) **Use only the grinding accessories approved for your power tool and only for the recommended applications.**
Example: Never grind with the side surface of a cutting disc. Cutting discs are designed to remove material with the edge of the disc. Any lateral application of force on these grinding tools can lead to breakage.
- b) **Use only undamaged mandrels of the correct size and length and without undercut on the shoulder for conical and straight pencil grinders.** Using an appropriate mandrel reduces the risk of breakages.
- c) **Avoid cutting disc jams or excessive contact pressure.** Do not make any excessively deep cuts. Overloading the cutting disc increases the stress and likelihood of tilting or jamming and thus the possibility of kickback or breakage of the grinding tool.
- d) **Avoid putting your hand in the area in front of or behind the rotating cutting disc.** When you move the cutting disc away from your hand, it is possible, in the event of a kickback, that the power tool along with the rotating disc could be thrown out directly towards you.

- e) **If the cutting disc jams or you stop working, switch the tool off and hold it steady until the disc has completely stopped turning.** Never attempt to pull a rotating cutting disc out of a cut. This could lead to kickback. Identify and remove the cause of the jam.
- f) **Do not restart the cutting operation in the workpiece.** Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- g) **Support panels or large workpieces to reduce the risk of the cutting disc jamming and causing a kickback.** Large workpieces can bend under their own weight. The workpiece must be supported on both sides, namely in the vicinity of the cut, and also at the edge.
- h) **Be particularly careful when making "pocket cuts" into existing walls or other obscured areas.** The inserted cutting disc may cut into gas or water pipes, electrical wiring or other objects that can cause kickback.

Supplementary safety instructions for working with wire brushes

Special safety instructions for working with wire brushes:

- a) **Be aware that the brush can lose wire bristles even during normal operation.** Do not overstress the wires by applying excessive pressure to the brush. The wire bristles can easily penetrate light clothing and/or skin.
- b) **Allow the brush to run at working speed for at least one minute before applying it to the workpiece.** Ensure that no one is standing in front of or in line with the brush during this time. Loose pieces of wire could fly off during the run-in period.

- c) **Aim the rotating steel brush away from yourself.** When working with these brushes, small particles and minute pieces of wire can fly off at great speed and pierce skin.

Additional safety warnings

- a) **GFCI and personal protection devices like electrician's rubber gloves and footwear will further enhance your personal safety.**
- b) **Do not use AC only rated tools with a DC power supply.** While the tool may appear to work, the electrical components of the AC rated tool are likely to fail and create a hazard to the operator.
- c) **Keep handles dry, clean and free from oil and grease.** Slippery hands cannot safely control the power tool.
- d) **Develop a periodic maintenance schedule for your tool.** When cleaning a tool be careful not to disassemble any portion of the tool since internal wires may be misplaced or pinched or safety guard return springs may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

⚠ WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Safety guidelines for battery chargers

- **This appliance may be used by children aged 8 years and above and by persons with limited physical, sensory or mental capabilities or lack of experience and knowledge, provided that they are under supervision or have been told how to use the appliance safely and are aware of the potential risks.** Do not allow children to use the appliance as a plaything. Cleaning and user maintenance tasks may not be carried out by children unless they are supervised.
- **To avoid potential risks, damaged mains cables should be replaced by the manufacturer, their customer service department or a similarly qualified person.**
- **This manual contains instructions for battery charger model BBT-KP526.** Do not substitute with any other charger.
- **Before using charger, read all instructions and cautionary markings on battery charger.**
- **Charge only SnapFresh rotary tool BBT-KP526.**
- **Charge battery in temperatures above +32 degrees F (0 degrees C) and below +113 degrees F (45 degrees C).** Store tool in locations where temperatures will not exceed 120 degrees F (49 degrees C). This is important to prevent serious damage to the battery cells.
- **Do not recharge battery in damp or wet environment.** Do not expose charger to rain or snow. Water entering battery charger may result in electric shock or fire.

■ **Battery leakage may occur under extreme usage or temperature conditions.**

Avoid contact with skin and eyes. The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.

■ **Place tool on flat nonflammable surfaces and away from flammable materials when recharging the battery.** Carpeting and other heat insulating surfaces block proper air circulation which may cause overheating of the charger and the battery. If smoke or melting of the charger or tool is observed, unplug the charger immediately and do not use the tool or charger. Contact customer service immediately.

■ **Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.** Damaged plug and cord may result in electric shock or fire.

■ **Disconnect the charger by pulling the plug rather than the cord.** Do not operate charger with damaged cord or plug; have them replaced immediately. Damaged plug or cord may result in electric shock or fire.

■ **Do not disassemble charger or operate the charger if it has received a sharp blow, been dropped or otherwise damaged in anyway.** Incorrect reassembly or damage may result in electric shock or fire. Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Never open the charger yourself, Incorrect reassembly may result in electric shock or fire.

■ **Do not use attachments not recommended or sold by SnapFresh.** Using attachments not recommended may result in electric shock or fire.

■ **Keep the Charging socket ④ clean by blowing compressed air.** Contamination may result in electric shock or fire.



The charger is suitable for indoor use only.

⚠ WARNING!

- Do not operate the appliance with a damaged cable, power cable or power plug. A damaged power cable poses a threat of fatal electric shock.

Use

- Never use the appliance for other purposes and only original parts/accessories. Using attachments or accessory tools other than those recommended in the operating instructions can lead to a risk of injury.

FCC Caution

The manufacturer is not responsible for radio interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Charging the battery pack

NOTICE

- ▶ A new battery pack or a battery pack which has not been used for a long time will need to be charged before first use/reuse. It will reach its full capacity after 3–5 charge cycles. The charging process lasts around 60 minutes.

⚠ CAUTION!

- ▶ Do not use the tool while charging because it will harm the battery.
- Insert the battery charger plug ⑧ into the charging socket ④ on the appliance and then plug the mains plug into a mains socket. Once the battery is fully charged, the battery LED ② lights up RED/ ORANGE/ GREEN.
- First unplug the charger ⑧ from the mains power socket and then the charger plug ⑧ from the charging socket ④ on the appliance.

⚠ CAUTION!

- ▶ Never recharge a battery pack again immediately after charging. There is a risk that the battery pack will become overcharged.

Checking the battery charge level

If the appliance is switched on, the status/remaining charge will be shown on the battery LED ② as follows:

RED / ORANGE / GREEN = maximum charge

RED / ORANGE = medium charge

RED = low charge – charge the battery

Changing/inserting the tool/collet chuck

- Press the shaft lock ⑦ and hold it down

⚠ CAUTION!

- ▶ Do not press the shaft lock button ⑦ while the rotary tool is running.
- Turn the collet nut ⑤ until the lock clicks into place
- Undo the collet nut ⑤ from the thread using the combination spanner.
- Remove any tool which is inserted.
- First push the intended tool through the collet nut ⑤ before inserting it into the appropriate collet chuck ⑮ for the tool shaft.
- Press the shaft lock ⑦ and hold it down.
- Push the collet chuck ⑮ into the thread insert and screw the collet nut ⑤ tight with the combination spanner ⑳.

NOTICE

- ▶ Use the screwdriver side of the combination spanner ⑳ to undo and tighten the screw on the mandrel ⑩.

Switching on and off/setting speed range**Switching on/setting the speed range:**

- Set the ON/OFF switch ③ to the position between "I".

Set the variable speed dial ① to a position between "1" and "MAX".

Switching off:

- Set the ON/OFF switch ③ to the "O" position.

Notes on working with materials/tools /speed range

The following are recommendations only and not binding. When carrying out practical work, carry out your own tests to see which tool and which settings are ideal for the material you are working on.

The best way to determine the correct speed for work on any material is to practice for a few minutes on a piece of scrap.

You can quickly learn that a slower or faster speed is more effective just by observing what happens as you make a pass or two at different speeds. When working with plastic, for example, start at a slow rate of speed and increase the speed until you observe that the plastic is melting at the point of contact. Then reduce the speed slightly to get the optimum working speed.

- Use the cutting wheels ⑭ for working on the steel and iron at maximum speed or speed "6".
- Determine the rotational speed range for working on zinc, zinc alloys, aluminium, copper and lead by trying it out on test pieces.
- Use a low rotational speed for work on plastics and materials with a low melting point.
- Use a high rotational speed for working on wood.
- Carry out cleaning, polishing and buffing work in the medium speed range.

Setting a suitable rotational speed:

Number on the variable speed dial ①	Material being worked	Number on the variable speed dial ①	Material being worked
1–3	Plastics and materials with a low melting point	6	Hardwood
4–5	Stone, ceramics	Max	Steel
5	Soft wood, metal		

Application examples/selecting a suitable tool:

Function	Accessories	Use	Protrusion (min–max) in
Drilling	HSS drills ⑨	Drilling on wood or plastic 3/64"(1.4mm), 1/16"(1.6mm), 5/64"(2.0mm), 3/32"(2.4mm), 1/8"(3.0mm)	0.7–0.98 in, using the smallest drill, the protrusion is 0.39 in
Milling	Milling bits ⑰	Are made for intricate work on wood carvings, e.g. creating recesses, hollows, forms, grooves or slits. They should not be used on steel and other hard materials but are good on wood, plastic. 3/32" shank. 3/32" shank.	0.7–0.98 in
Carving/ Engraving	Diamond carving bits ⑱	Carve intricate details, etch metal, glass, stoneware, terracotta. 3/32" shank.	0.7–0.98 in
Polishing, rust removal	Coppered steel wire brush ⑬	Use for metal cleaning or rust removal. 3/32" shank.	0.35–0.59 in
CAUTION! Exert only slight pressure when applying the tool to the workpiece.	Thinner felt polishing wheels ⑪ (use with mandrel ⑩) Thicker felt polishing wheels ⑪ (use with mandrel ⑳)	Felt polishing wheel used for polishing plastics, metals, jewelry and small parts. Polishing points make a very smooth surface, but a high luster is obtained using felt and polishing compound. For best results polishing accessories should be used at speeds not greater than Speed 5.	0.47–0.7 in

Cleaning	Synthetic brushes 16	The nylon wire brushes are good for general purpose cleaning. These are excellent cleaning tools on silverware, jewelry and antiques. The two shapes make it possible to get into tight corners and other difficult places. 3/32" shank.	0.35–0.59 in
Grinding/ sharpening	Grinding wheels 12 (use with mandrel 10)	Aluminum Oxide Grinding Wheel/Stones (Pink/brown) These are made of aluminum oxide and cover virtually every possible kind of grinding application on metal. Use them for sharpening lawn mower blades, screwdriver tips, knives, scissors and other cutting tools. Use to remove flash from metal castings, deburring any metal after cutting, smoothing welded joints and removing rust. These grinding stones can be resharped with a dressing stone. 3/32" or 1/8" shank.	0.47–0.7 in
	Grinding bits 19 24	Silicon Carbide Grinding Wheel/Stones (gray/green) Tougher than aluminum oxide points, these are made especially for use on hard materials such as glass and ceramics. Typical uses might be the removal of stilt marks and excess glaze on ceramics. Engraving or grinding on glass. 3/32" shank.	0.39 in
Cutting	Cutting discs 14 (use with mandrel 10)	These thin discs are used for slicing, cutting off and similar operations on metal, plastic and wood. Use them for cutting off frozen bolt heads and nuts, or to reslot a screw head which has become so damaged that the screwdriver won't work in it. Fine for cutting small rods, small tubing, cable. Warning: Do not grind with the side of a cut off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter. 3/32" shank.	0.47–0.7 in

Sanding	15 Grit sanding bands 21 (use with drum mandrels 20)	Sanding Band in S, M and L sizes are made to fit mandrels 20. They can be used for small sanding job, such as model making, or furniture finishing. The tiny drum which fits into the rotary tool and makes it possible to shape wood, sand inside curves and other difficult places, and other sanding jobs. You replace the sanding bands on the drum as they become worn and lose their grit. They are used most effectively as a finishing sander after heavier surface sanding and material removal is completed. They work effectively on wood, glass, metal and plastics. Suggested speed: don't exceed Speed 5. 1/8" shank	0.47–0.7 in
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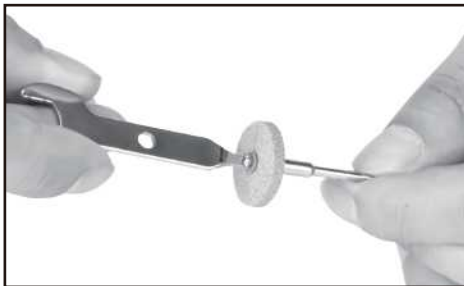
- Note that the maximum diameter of the grinding assembly, and of grinding cones and pencil grinders with a thread insert, may not exceed 2.16 in (55 mm) and the maximum diameter for sandpaper sanding accessories may not exceed 3.14 in (80mm).

NOTICE

- ▶ The max. permissible length of a mandrel is 1.29 in (33 mm).

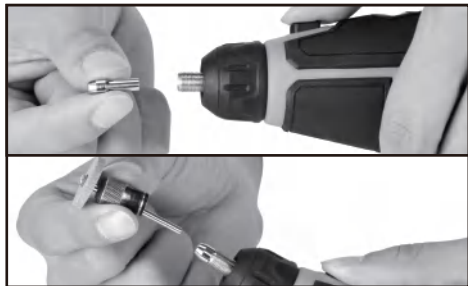
- Store the accessories in the original box or store the accessory components somewhere else to protect them from damage.
- Store the accessories somewhere dry and not in the vicinity of aggressive media.

Additional instructions for accessories/attachments



Mandrels as tool holders 10

This is a mandrel with a small screw at its tip, and is used with cutting wheels 14, grinding discs 12 and thinner polishing wheels 11 3/32" shank.



Collet chucks 15

Collet chuck(1/16"):
Use with HSS drill bits 3/64"(1.4mm), 1/16"(1.6mm)
Collet chuck(3/32"):
Use with HSS drill bits 5/64"(2.0mm), 3/32"(2.4mm), and accessories 10 13 16 17 18 19
Collet chuck(1/8"):
Use with HSS drill 1/8"(3.0mm), and accessories 20 24 25



Sanding drum mandrels 20

Use with sanding band 21

To replace a band on the Drum Sander, loosen the screw without removing it to contract the drum then slide the old band off. Slide the new sanding band on and then expand the drum by tightening the screw once again.

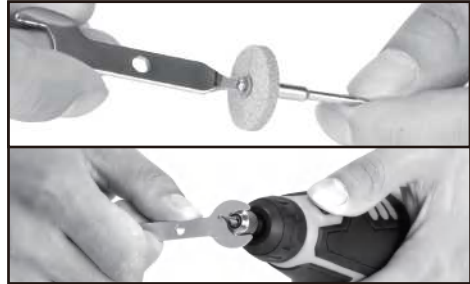
⚠ WARNING

Before each use, check to make certain that all components are assembled to accessory shank and that the drum is sufficiently expanded to secure the band during use. If sanding band is loose on the drum during operation it may fly off and strike you or bystanders.



Keyless chuck 22

Ideal for 1/32" (0.8mm) to 1/8" (3.2mm)
 This chuck allows you to quickly and easily change accessories on rotary tools without changing collets. Accepts accessories with 1/32" - 1/8" shank. Insert and securely tighten the shank of the accessory well within the jaws of the chuck. But we suggest to use 1/16" chuck for 3/64"(1.4mm), 1/16"(1.6mm) drill bit

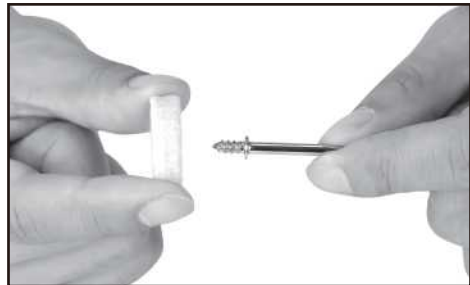


Combination spanner 23

After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened.

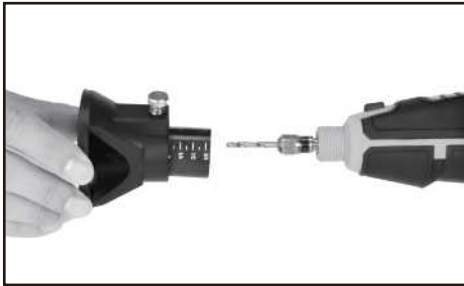
Use spanner to tighten!

Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.



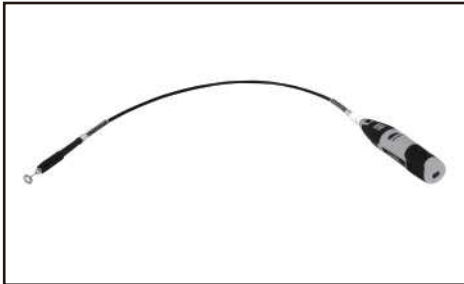
Screw mandrel 25

This is a screw mandrel used with the thicker felt wheels of the felt polishing wheel 11. Thread the thicker wheels on to the screw carefully. The felt wheel must thread down straight on the screw Mandrel, and be turned all the way to the collar.



Cutting/drilling guide 26

Depth adjustment quickly sets correct cutting/drilling depth up to 3/4"



Flex shaft length 43" 27

Pre-installed with a 1/8"(3.2mm) collet chuck, also will fit other collet chucks for SnapFresh rotary tool. Ergonomic pen design makes easy, comfortable carving, sanding and polishing. It can be used with polishing kits, drill bits, wire brushes, cut off wheels, grinding wheels, sanding bands and more working in tight spaces, ideal for engraving and jewelry making the 43" Flexible Shaft rotary tool simplifies working in cramped spaces and allows the user more freedom while working on DIY projects.

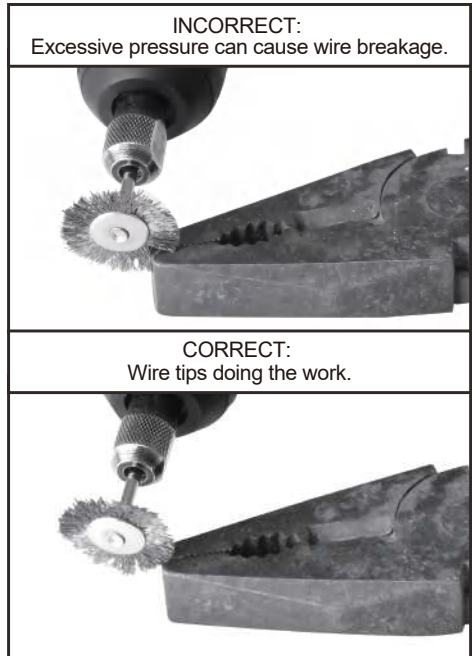
NOTICE

It may cause heat or shock depending on the speed or the degree of bending, the higher rotating speed with higher degree of bending may burn the cover.

TIP

- a) Do not use the flexible shaft for a long time, stop the tool and let it cool down every 5-10 minutes;
- b) Try to keep it straight while working as possible as you can and don't bend it too much;
- c) Suggested speed: don't exceed Speed 3;

- d) For best performance and long life, be sure to apply a greasing lubricant to the inner flex shaft parts as needed. Like all tools proper care and attention will extend the longevity of the tool. Overall length: 43 inches



Coppered steel wire brush 13

- a) Remember, the tips of a wire brush do the work. Operate the brush with the lightest pressure so only the tips of the wire come in contact with the work.
- b) If excessive pressures are used, the wires will be overstressed, resulting in a wiping action; and if this is continued, the life of the brush will be shortened due to wire fatigue.

Operating Instructions

SnapFresh rotary tool BBT-KP526

Thank you for purchasing the SnapFresh rotary tool BBT-KP526.

It has a wide speed range including a high performance motor that allows the tool to maintain its speed under load. The design of the tool also contains plenty of soft grip so the tool can be held comfortably in many positions. The quick collet lock mechanism makes locking the output shaft easier for changing accessories.

Rotary Tool Introduction

The rotary tool has a small, powerful electric motor, is comfortable in the hand, and is made to accept a large variety of accessories including abrasive wheels, drill bits, wire brushes, polishers, engraving cutters, router bits, cutting wheels and attachments.

The rotary tool operates at speeds up to 28,000 revolutions per minute, it's almost 10 times faster than the electric drill. The electric drill is a low-speed, high torque tool; the Rotary Tool is just the opposite – a high-speed, low torque tool, so excessive pressure will make the rotating stop. You don't apply much pressure to the tool, but simply hold and guide it.

The speed enables it to do jobs low speed tools cannot do, such as cutting hardened steel, engraving glass, etc.

Getting the most out of your rotary tool is a matter of learning how to let this speed work for you. To learn about more uses and the versatility of accessories and attachments refer to this Owner's Manual.

TIP

- a) **If you exert excessive pressure, the fitted tool can break and/or the work-piece could be damaged, also if the rotating stopped by excessive pressure, the protection system may be triggered, resulting in shut down. If it happened, the Battery LED lights will turn off, you need to restart the tool. Then you can continue to use the tool, but exert lighter pressure.** You will achieve optimum working results by moving the tool over the workpiece at a steady speed. Increasing the pressure on the tool is not the answer when it is not performing as you think it should. Perhaps you should be using a different accessory, and perhaps an adjustment in speed would solve the problem. Leaning on the tool does not help.
- b) When carrying out cutting work, hold the appliance firmly with both hands.
- c) Observe the data and the information in the table to prevent the end of the spindle from touching the perforated base of the grinding tool.
- d) Do not press the shaft lock button **7** while the rotary tool is running.

Using the rotary tool

Always Wear Eye Protection



Always hold the tool away from your face. Accessories can be damaged during handling, and can fly apart as they come

up to speed. This is not common, but it does happen.

▲ CAUTION

Whenever you hold the tool, be careful not to cover the air vents with your hand. This blocks the air flow and causes the motor to overheat.

For best control in close work, grip the rotary tool like a pencil between your thumb and forefinger (Figure A).



The "Golf Grip" method of holding the tool can be used for more aggressive operations such as grinding a flat surface or using cutoff wheels (Figure B and Figure C).

Practice on scrap materials first to see how the rotary tool's high speed action performs. Keep in mind that the work is done by the speed of the tool and by the accessory in the collet. You should not lean on or push the tool during use.

Instead, lower the spinning accessory lightly to the work and allow it to touch the point at which you want cutting (or sanding or etching, etc.) to begin. Concentrate on guiding the tool over the work using very little pressure from your hand. Allow the accessory to do the work.

Usually, it is best to make a series of passes with the tool rather than attempt to do all the work in one pass. To make a cut, for example, pass the tool back and forth over the work. Cut a little material on each pass until you reach the desired depth. For most work, the gentle touch is best. With it, you have the best control, are less likely to make errors, and will get the most efficient work out of the accessory.

Maintenance and Cleaning

The appliance is maintenance-free.

- Remove all dirt from the appliance. Use a dry cloth to do this.
- At the beginning and end of an extended period of non-use, charge the battery fully.
- If a lithium-ion battery is to be stored for an extended period, the charge level should be checked regularly. The optimum charge level is between 50% and 80%. The optimum storage environment is cool and dry.

WARNING!

- Have the power tool repaired by the service centre or a qualified electrician and only using genuine replacement parts. This will ensure that the safety of the appliance is maintained.

WARNING!

- Always ensure that the power plug or the mains cable is replaced only by the manufacturer of the appliance or by an approved customer service provider. This will ensure that the safety of the appliance is maintained.

Disposal



The packaging is made from environmentally friendly material and can be disposed of at your local recycling plant. If you can no longer use your power tool, dispose of it in accordance with the legal provisions applicable in your state. This will allow you to ensure that old power tools are recycled and environmental pollution is kept to a minimum.



Do not dispose of power tools in your normal domestic waste!

The integrated rechargeable battery in this appliance cannot be removed for disposal. To prevent risks, the removal or replacement of the battery may only be carried out by the manufacturer or the manufacturer's customer service department or a similarly qualified person. When disposing of the appliance, indicate that the appliance contains batteries.

Warranty

Ningbo Babytec Technology Co., Ltd (Hereinafter referred to as Babytec) warrants this product against defects in materials and/or workmanship under normal use for a period of ONE (1) YEAR from the date of purchase by the original purchaser ('Warranty Period').

The following circumstances are excluded from this guarantee:

- Repairs and or alterations have been made or attempted to the machine by unauthorized service centers;
- Normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- Non-original spare parts have been used.

If a defect arises and a valid claim is received within the Warranty Period, at its option, Babytec will either 1) repair the defect at no charge, using new or refurbished replacement parts, or 2) replace the product with a new product that is at least functionally equivalent to the original product, or provide a store credit in the amount of the purchase price of the original product. A replacement product or part, including a part installed in accordance with instructions product by Babytec, assumes the remaining warranty of the original product. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Babytec's property. When a store credit is given, the original product must be returned to Babytec and becomes Babytec's property. To obtain warranty service, e-mail Babytec Warranty Service at **info@snapfreshtools.com**. Please be prepared to describe the product that needs service and the nature of the problem.